

USN										
-----	--	--	--	--	--	--	--	--	--	--



Internal Assessment Test – III

Sub:	Multimedia Communication	Sec	A, B, C & D	Code:	15EC741				
Date:	20/10/18	Duration:	90 mins	Max Marks:	50	Sem:	VII	Branch:	ECE

Note: Answer any five full questions.

	Marks	OBE CO	RBT
1. Explain JPEG encoder with a neat diagram.	[10]	CO3	L1
2. Explain LPC encoder and decoder with the help of neat diagram.	[10]	CO4	L1
3. A digitized video is to be compressed using MPEG-1 standard. Assuming a frame sequence of IBBPBBPBBPBBBI..... And average compression ratios of 10:1(I), 20:1(P) and 50:1(B) derive the average bit rate that is generated by the encoder for NTSC digitization format with $Y = 352 \times 240$ and $C_b, C_r = 176 \times 120$ and for PAL digitization format with $Y = 352 \times 288$ and $C_b, C_r = 176 \times 144$.	[10]	CO4	L2

USN										
-----	--	--	--	--	--	--	--	--	--	--



Internal Assessment Test – III

Sub:	Multimedia Communication	Sec	A, B, C, & D	Code:	15EC741				
Date:	20/10/18	Duration:	90 mins	Max Marks:	50	Sem:	VII	Branch:	ECE

Note: Answer any five full questions.

	Marks	OBE CO	RBT
1. Explain JPEG encoder with a neat diagram.	[10]	CO3	L1
2. Explain LPC encoder and decoder with the help of neat diagram.	[10]	CO4	L1
3. A digitized video is to be compressed using MPEG-1 standard. Assuming a frame sequence of IBBPBBPBBPBBBI..... And average compression ratios of 10:1(I), 20:1(P) and 50:1(B) derive the average bit rate that is generated by the encoder for NTSC digitization format with $Y = 352 \times 240$ and $C_b, C_r = 176 \times 120$ and for PAL digitization format with $Y = 352 \times 288$ and $C_b, C_r = 176 \times 144$.	[10]	CO4	L2

4. Explain in details the concept of streaming video across the internet. [10] CO5 L1
5. Explain the principle of video compression with a neat sketch. [10] CO4 L3
6. Explain the error tracking procedures of H.263 with a neat diagram. [10] CO4 L1
7. Explain the third order Predictive DPCM signal encoder and decoder. [10] CO5 L1
8. Illustrate with a neat diagram how errors and losses are handled in ATM networks. [10] CO5 L1

4. Explain in details the concept of streaming video across the internet. [10] CO5 L1
5. Explain the principle of video compression with a neat sketch. [10] CO4 L3
6. Explain the error tracking procedures of H.263 with a neat diagram. [10] CO4 L1
7. Explain the third order Predictive DPCM signal encoder and decoder. [10] CO5 L1
8. Illustrate with a neat diagram how errors and losses are handled in ATM networks. [10] CO5 L1